

TALL TO SEE THE STREET STREET

KAGAN, M.S.; LIFSHITS, T.M.; MUSATOV, A.L.; SHERONOV, A.A.

Field emission from high-resistance germanium. Fiz. tver. tela 6 no.3:722-727 Mr '64. (MIRA 17:4)

1. Institut radiotekhniki i elektroniki AN SSSR, Moskva.

VOLKOVA, O.Yu., prof.; TASHINSKAYA, A.D., kand.med.nauk; KAGAN, M.S., kand. khimicheskikh nauk

Effect of various concentrations of radon on the peripheral blood in animals. Uch.zap.Pyat.gos.nauch.-issl.bal'n.inst. 3:3-15 '60. (MIRA 15:10)

(RADON-THERAPEUTIC USE)

(BLOOD\_EXAMINATION)

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KAGAN, M.S., kand.khimicheskikh nauk; LEGEN'KAYA, L.M.; KHURTINA, Ye.V.

Determining the integral absorbed radiation dosage for white mice during their irradiation in a radiation chamber. Uch.sap.
Pyat.gos.nauch.\_issl.bal'n.inst. 9:397-413 '60. (HIRA 15:10)
(RADON) (RADIATION-DOSAGE)

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VOLKOVA, O.Yu.; TASHINSKAYA, A.D.; KAGAN, M.S.

Action of radon radiations and the products of its decomposition on hematopoietic processes. Med.rad. no.9154-63 161.

(MIRA 15:1)

1. Iz mikrobiologicheskoy laboratorii Gosudarstvennogo bal'neologicheskogo instituta na Kavkazskikh Mineral'nykh Vodakh. (RADON---PHYSIOLOGICAL EFFECT)

(HEMOPOIETIC SYSTEM-RADIOGRAPHY)

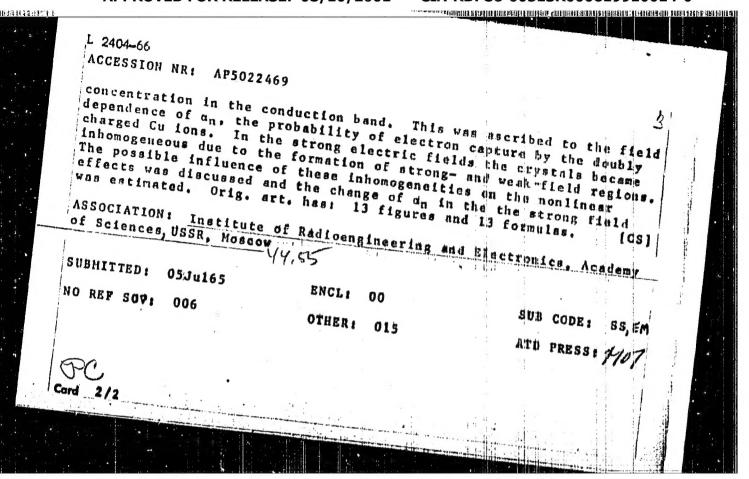
Physiological and dosimetric studies of the effect of radon

Physiological and dosimetric studies of the effect of radon water administered internally on the secretory function of the stomach. Med.rad. no.3:39-45 62. (MIRA 15:3)

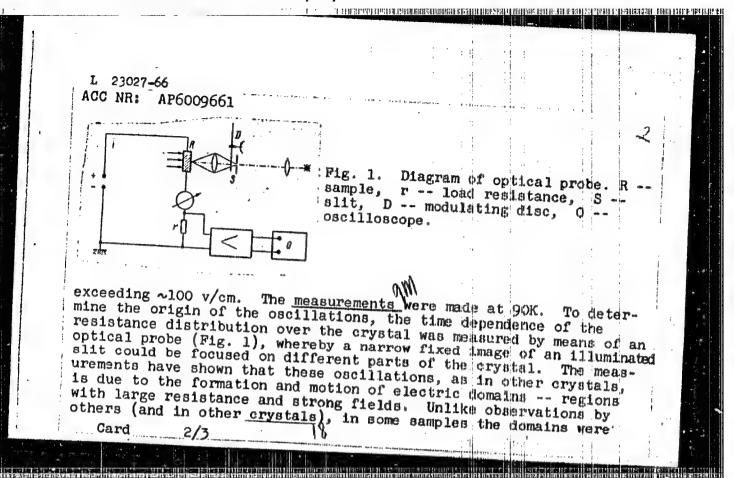
1. Iz eksperimental nogo otdela (zav. - prof. A.K. Pislegin) i radiologicheskov laboratorii (zav. - kand.med.nauk H.S. Kagan) Pyatigorskogo nauchno-issledovatel skogo bal neologicheskogo instituta.

(RADON) (STOMACH--SECRETIONS)

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•••	L 2404-66 ENT(1)/ENT(m)/EPA(w)-2/ENP(t)/EWP(b)/EWA(m)-2 IJP(c) JD/AT	. 6
	ACCESSION NR 2 AP3022469 GE/0030/65/011/001/0419/04185	
	149 149 149	
	AUTHOR: Kagan, H. S.; Kalashnikov, S. G.; Zhdanova, N. C.	9,31
	and the second s	
	TITLE: Nonlinear electrical effects and recombination of the hot	
	electrons in compensated germanium	
	1 10 10 10	
	SOURCE: Physica status solidi, v. 11, no. 1, 1965, 415-428	
	TOPIC TAGS: germanium, semiconductor, hot electron effect, recombin-	
	ation impurity center, capture cross section	
	acton impurity center, superior	<b>¢</b> ;
	ABSTRACT: Steady-state and transient current-voltage characteristics	
	of Cu-doned n-type Ge samples with a partially compensated upper	
	(g 0.26 ev) Cu level were investigated in a field which was varied	
	from 1 to 10 v/cm. In a field greater than ~100 v/cm the current	
	voltage curves were found to be sublinear. A study was made of the	
	effect of temperature and of the spectrum of the incident light on	
	the steady state and the kinetics of the photocurrent. Hegative dif-	
	ferential conductivity and coherent low-frequency oscillations were	
•	observed at nitrogen temperatures and at high illumination. The non- linear effects were shown to be due mainly to a decrease of electron	
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	L 23027-66 EWT(1)/EWT(m)/T/EWP(t) IJP(c) JD/AT  ACC NR: AP6009661 SOURCE CODE: UR/0181/66/003/003/0788/0791
	AUTHORS: Zhdanova, N. G.; Kagan, M. S.; Kalashnikov, S. G.
a a	ORG: Institute of Radio Engineering and Electronics AN SSSR Moscow (Institut radiotekhniki i elektroniki AN SSSR)
	TITLE: Instability of current and electric domains in compensated germanium
	SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 788-791
	TOPIC TAGS: germanium, photoeffect, crystal structure, semicon- ductor impurity, detric count
	ABSTRACT: This is a continuation of earlier work (Phys. Stat. Sol. v. 11, 415, 1965) where it was found that under certain conditions copper-doped or gold-doped germanium is subject to intense low-frequency current oscillations. The present article deals with the properties and nature of these oscillations in n-type germanium conproperties and nature of these oscillations in n-type germanium con-
	properties and nature of these oscillations and in defi- taining copper with a partially compensated upper level, under defi- taining copper with a partially compensated upper level, under defi- nite illumination conditions, at nitrogen temperatures, and in fields
	Card 1/3
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ACC NR: AP6009661

Observed not in the entire crystal, but only in a part of the crystal. The velocity of the domain increased with increasing illumination intensity. The period of the spontaneous oscillations of the current is determined by the time necessary for the domain to travel from its place of initiation to the anode. Orig. art. has: 4

SUB CODE: 20/ SUBM DATE: 24Ju165/ ORIG REF: 001/ OTH REF: 009

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figures.

Apparatus for determining the nearest point of clear vision. Voen-med.

zhur. no.1:88 Ja '56 (MIRA 10:5)

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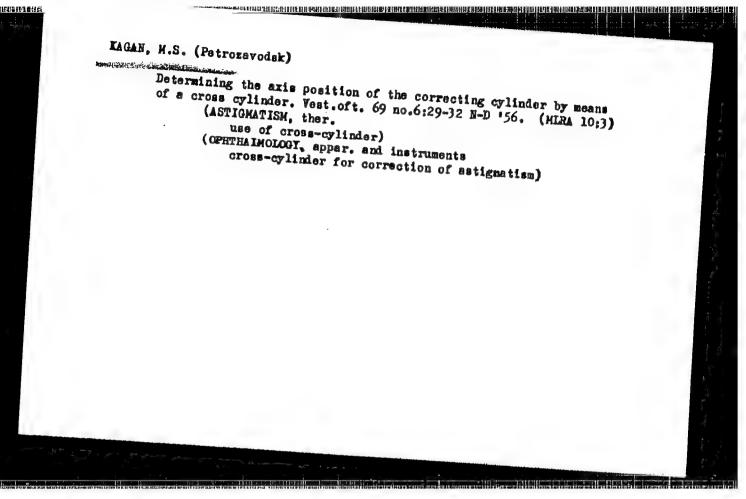
near point of clear vision, appar. for determ)(Rus)

KAGAN, M. S. Guards Lt. Col. Med. Service

"Folding Wooden Panel for Stretchers for Hedical Transport Station of an Airfield," Voyenno-Medits. zhur., No.10, 00. 67-68, 1956

This article deals with a new type of panel folding stretcher to be used for cases of spinal injury.

Translation 1083818



KAGAN, M.S.

SOV/112-59-2-2300

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 4 (USSR)

AUTHOR: Kagan, M. S.

TITLE: Results of Investigation of Eyes of the Personnel Engaged in Aircraft Radar-Landing (Resul'taty issledovaniya sostoyaniya organa zreniya u personala radiolokatsionnoy sistemy posadki samoletov)

PERIODICAL: Gigiyena truda i prof. zabolevaniy. 1957, Nr 6, pp 54-57

ABSTRACT: Bibliographic entry.

Card 1/1

ACCESSION NR: APho19829

8/01.81/64/006/003/0722/0727

AUTHORS: Kagan, M. S.; Lifshits, T. M.; Musatov, A. L.; Sheronov, A. A.

TITLE: Autoelectronic emission from high resistance germanium

SOURCE: Fizika tverdogo tela, v. 6, no. 3, 1964, 722-727

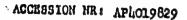
TOPIC TAGS: secondary emission, semiconductor property, EAU 3 electromagnetic amplifier, volt ampere characteristic, semiconductor resistance

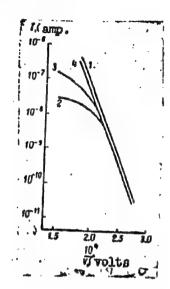
ARSTRACT: Studies were made on both n- and p-type germanium at temperatures of 293 and 80%. The germanium was doped with gold and compensated with antimony.

The gold concentration was 5.1014 cm-3 and the antimony concentration was of the same order, but chosen in such a way that the sample had high resistance at the temperature of liquid nitrogen. Resistivities attained for n-type germanium at 80K

were about 10<sup>8</sup> ohm cm, and for p-type 10<sup>6</sup> ohm cm. The volt-ampere characteristics of emission and the distribution of electrons according to energy are snown in Figs. 1 and 2 on the Enclosures. They exhibit no perceptible effect of "heating

Card 1/4



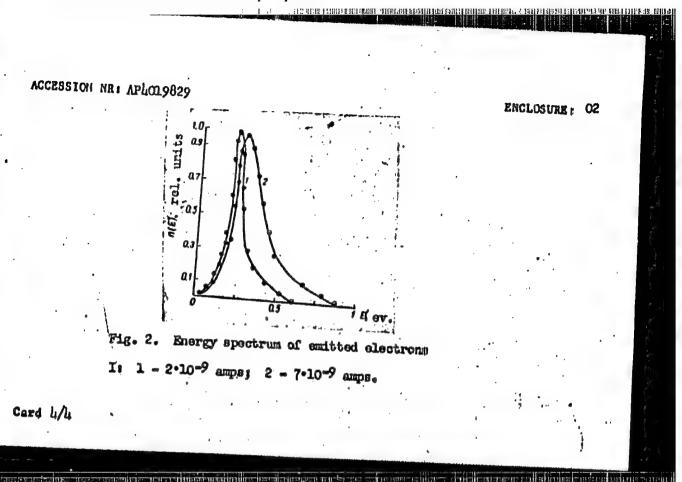


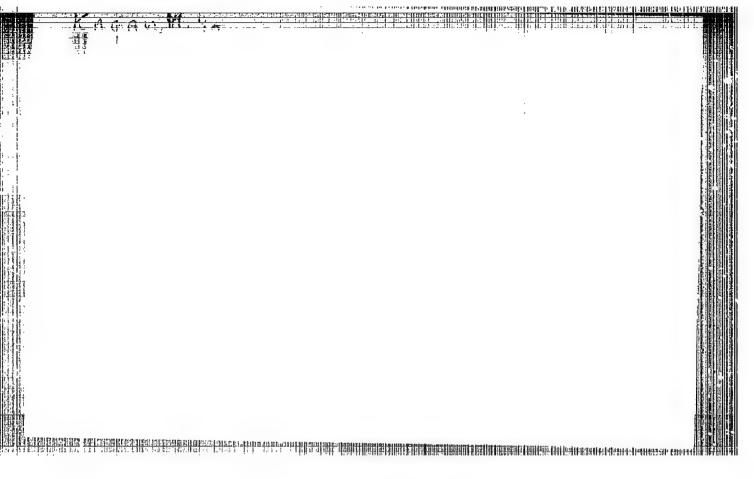
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Fig. 1. Volt-ampere characteristics of autoelectron emission from germanium.

Tomparature: 1 - 293K; 2-4 - 80K; 1,2 - nonirradiated samples; 3 - weakly irradiated sample; 4 - strongly irradiated sample.

Card 3/4





5 (3) AUTHORS:

sov/79-29-5-43/75 Mel'nikov, M. N., Shvetsova-

Shilovskaya, K. D., Kagan, M. Ya., Mil'shteyn, I. M.

TITLE:

From the Field of Organic Insectofungicides (Iz oblasti organicheskikh insektofungitsidov). XLII. Synthesis of Soma Mixed Esters of Dithio-phosphoric Acid (XLII. Sintez nekotorykh

smeshannykh efirov ditiofosfornoy kisloty)

PERTODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 5,

pp 1612-1614 (USSR)

ABSTRACT:

In order to explain the dependence between the insecticidal effect and the constitution of the compound, mixed (alkylaryl-) esters with the following general formulae are to be prepared: (RO)2PSS(CH2)nAr (I); (RO)2PSS(CH2)nXAr (X = CS), (II);

 $(RO)_2 PSS(CH_2)_n NR_2^1$  (III), and  $(RO)_2 PSO(CH_2)_n Ar$ . The present

paper deals with the synthesis of the esters I and II. They were obtained by reaction between salts of dialkyl-phosphoric acids and the halogen derivatives of alkyl-substituted aryls. In some cases the roaction proceeded very slowly and the esters were obtained in low yield only. The reaction of the salts of

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619 CIA-RDP86-00513R000619910014-0"

From the Field of Organic Insectofungicides. SOV/79-29-5-43/75 XLII. Synthesis of Some Mixed Esters of Dithio-phosphoric Acid

resulting methyl esters presumably act as alkylating (methylating) agents owing to the considerable mobility of the methyl radical. Hearly all compounds presented in a table with their physical data have hitherto not been described in publications, with the exception of the esters with p-chlorobenzyl radical which are patented in the Fed ral Republic of Germany (Ref 11). The authors prepared the compounds according to T and II with  $R = CH_3$ ,  $C_2H_5$ ,  $C_3H_7$ ,  $Iso-C_2H_7$ ,  $C_4H_6$ ,  $Ar = C_6H_5$ ,  $C_6H_4Cl$ ,  $C_6H_4NO_2$ , and n = 1,2 and 3. The experimental part describes the production of 0,0-dialkyl-S-benzyl-dithiophosphates and 0,0-dialkyl-S-2-phenoxy-ethyl-dithiophosphates. There are 1 table and 12 references, 6 of which are Soviet.

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ASSOCIATION:

Nauchnyy institut po udobreniyam i insektofungitsidar (Scientific Institute for Fertilizers and Insectofungicides)

SUBMITTED: Card 2/2 April 12, 1958

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AUTHORS:

Shvetsova-Shilovskaya, K. D., Mel'nikov, N. N., Kagan,

M. Ya., Glushenkov, V. A.

TITLE:

Concerning Organic Pesticides. LI. Synthesis of Some

O,O-Dialkyl Arylmercaptomethyl Dithiophosphates

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 193-194

(USSR)

ABSTRACT:

A series of 0,0-dialkyl arylmercaptomethyl dithiophosphates (the majority of which the authors were the

first to describe) were obtained in the reaction

(RO)<sub>2</sub>PSSMe + ClCH<sub>2</sub>SAr → (RO)<sub>2</sub>PSSCH<sub>2</sub>SAr + MeCl

Benzene, alcohol, or other solvents having a common radical with the dialkyl dithiophosphate molecule were used in this reaction. Biological tests were made by P. V. Popov and N. S. Ukrainets and showed that 0,0dimethyl- and 0,0-diethyl arylmercaptomethyl dithiophosphate (see Table) were the most effective killers of

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Concerning Organic Pesticides. LI. Synthesis of Some O,O-Dialkyl Arylmercaptomethyl Dithiophosphates

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Constants of 0,0-dialkyl-arylmercaptomethyldithiophosphates

Formula	Yield	bp (pressure in mm)	The Particle Strategy and a series of the se	Ng M
C <sub>8</sub> H <sub>5</sub> SCH <sub>2</sub> SSP(OC <sub>2</sub> H <sub>5</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> SCH <sub>2</sub> SSP(OC <sub>2</sub> H <sub>7</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> SCH <sub>2</sub> SSP(OC <sub>3</sub> H <sub>7</sub> -120) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> SCH <sub>2</sub> SSP(OC <sub>4</sub> H <sub>9</sub> ) <sub>2</sub> C <sub>6</sub> H <sub>5</sub> SCH <sub>2</sub> SSP(OC <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> 4-ClC <sub>6</sub> H <sub>5</sub> SCH <sub>2</sub> SSP(O <sub>2</sub> H <sub>9</sub> ) <sub>4</sub> 4-ClC <sub>6</sub> H <sub>4</sub> SCH <sub>2</sub> SSP(C <sub>3</sub> H <sub>7</sub> ) <sub>2</sub> 4-ClC <sub>6</sub> H <sub>4</sub> SCH <sub>2</sub> SSP(C <sub>3</sub> H <sub>7</sub> ) <sub>2</sub> 4-ClC <sub>6</sub> H <sub>4</sub> SCH <sub>2</sub> SSP(C <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> 4-ClC <sub>6</sub> H <sub>4</sub> SCH <sub>2</sub> SSP(C <sub>3</sub> H <sub>7</sub> ) <sub>4</sub> 4-ClC <sub>6</sub> H <sub>4</sub> SCH <sub>2</sub> SSP(C <sub>4</sub> H <sub>9</sub> ) <sub>2</sub>	36 68 73 63 49 63 63 75 65	128° (0.03) 139—142 (0.08) 133 (0.18) 175 (0.15) 151—152 (0.18) 143 (0.00) 180—182 (0.25) cannot be distrited	1,2703	1.5909 1.5726 1.5720 1.5583 1.5673 1.5932 1.5803 1.5773 1.5085

Card 2/3

Concerning Organic Pesticides. LI. Synthesis of Some O,O-Dialkyl Arylmercaptomethyl Dithiophosphates

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barn weevill among the compounds listed. The effectiveness dropped sharply with the increasing aliphatic ester radical size. There is I table; and 4 references, 2 U.S., I East German, I Soviet. The U.S. references are: H. T. Reinolds, T. R. Fukuto, R. L. Metcalf, R. B. March, J. Econ. Entomol., 50, 527 (1957); U.S. Pat. 2793294 (Ch. A. 51, 14196 (1957)).

ASSOCIATION:

Scientific Institute of Fertilizers and Pesti les (Nauchnyy institut po udobreniyam i insektor esi-

dam)

SUBMITTED:

January 5, 1959

Card 3/3

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KRGAN H. IA.

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77382 SOV/79-30-1-43/78

AUTHORS:

Mel'nikov, N. N., Shvetsova-Shilovskaya, K. D.,

Kagan, M. Ya.

TITLE:

Concerning Organic Pesticides. LIV. A New Method of Preparation of Trialkyl Dithiophosphates and Tetraal-

kyl Dithiopyrophosphates

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 200-

203 (USSR)

ABSTRACT:

The reaction between bis(dialkoxythiophosphory1) disulfides and dialkyl phosphites, in the presence of triethylamine, proceeds with the formation of correspondent

ponding esters of dithiophosphoric acid.

 $[(RO)_{2}PS]_{3}S_{3} + (R'O)_{3}POHN(C_{2}H_{5})_{3} \longrightarrow 2 (RO)_{8}PSSR' + (C_{2}H_{5})_{3}NHPO_{3}^{*}$ 

Card 1/4

The obtained produces are mostly new compounds (see Table 1). The reaction between bis(dialkoxythiophosphoryl) disulfides and trialkyl phosphites proceeds

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Concerning Organic Pesticides. LIV. A New 77382, SOV/79-30-1-43/78 Method of Preparation of Trialkyl Dithio-phosphates and Tetraalkyl Dithiopyrophosphates

	Formula	Y.4.14 2.)	in mm)	d, w	н,**
Table 1	(CH <sub>5</sub> O) <sub>2</sub> P(S)SCH <sub>5</sub> °	70	5152°	1.2338	1.5200
	$(C_2H_5O)_2P(S)SCH_5$	\$8	(0.2) 63.564	1.1951	1.5100
	$(C_3H_7O)_8P(S)SCH_3$	53	(0.08) 6870 (0.1)	1.0806	1.5008
	(166 -C <sub>3</sub> H <sub>7</sub> O) <sub>2</sub> P(S)SCH <sub>3</sub> **	80	6060.5	1.0736	1,4950
	$(C_4H_9O)_3P(S)SCH_3$	63	8990 (0.08)	1.0540	1.4960
	(140-C <sub>4</sub> H <sub>8</sub> O) <sub>2</sub> P(S)SCH <sub>3</sub>	78	7576 (0.07)	1.0483	1.4930
	$(CH_3O)_2P(S)SC_2H_5$	32	4850 (0.08)	1.1641	1,4958
	$(C_2H_5O)_3P(S)SC_2H_5^{***}$	61	5758 (0.08)	1.1111	1.5050
	$(C_3iI_7O)_3i^3(S)SC_3iI_5$	57	73.5.—75 (0.08)	1.0623	1.4968
Card 2/4	(180 -C <sub>3</sub> H <sub>7</sub> O) <sub>2</sub> P(S)SC <sub>3</sub> H <sub>8</sub>	37	6162 (0.08)	1.0757	1,1910

Concerning Organic Pesticides. LIV. A. New Method of Preparation of Trialkyl Dithiophosphates and Tetraalkyl Dithiopyrophosphates

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THE REPORT OF THE PROPERTY OF

with formation of trialkyl dithiophosphates, as well as unsymmetrical tetralkyl dithiopyrophosphates. The latter are not described in the literature.

 $\{(RO)_2PS\}_2S_2+(R'O)_3P\longrightarrow (RO)_2PSSR'+(RO)_2PSSPO(OR')_2$ 

The above products are obtained, in good yields, accompanied by a small amounts of side products. There are 2 tables; and 10 references, 7 Soviet, 1 French, 1 Japanese, 1 U.S. The U.S. reference 1s: G. R. Norman, N. M. Lesuer, T. W. Mastin, J. Am. Chem. Soc., 74, 161 (1952).

ASSOCIATION:

Scientific Institute of Fertilizers and Pesticides (Nauchnyy institut po udobreniyam i insektofungitsidam)

SUBMITTED:

January 19, 1959

Card 3/4

oncerning Org	anic Pesticides. LIV.	77	382, sov/79-	·30-1-	43/78
	Formula	Yield un 70)	(pressore in mm)	d.40	70
	(CH <sub>3</sub> O) <sub>2</sub> P(S)SC <sub>2</sub> H <sub>5</sub>	quanti -	5859 (0.1)	1.1795	1.5080
Table 2	(CH <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> P(S)SP(O)(OC <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>	59	106 106.5 (0.1)	1.2443	1.4915
	$(C_{2}H_{5}O)_{2}P(S)\overset{\circ}{S}C_{2}H_{5}  (C_{2}H_{5}O)_{2}P(S)\overset{\circ}{S}P(O)(OC_{2}H_{5})_{4}$	84 83	6971 (0.075) 114115 (0.08)	1.1160 1.2054	1.5020 1.5008
	(C <sub>3</sub> H <sub>7</sub> O) <sub>2</sub> P(S)SC <sub>2</sub> H <sub>5</sub> (C <sub>3</sub> H <sub>7</sub> O) <sub>2</sub> P(S)SP(O)(OC <sub>2</sub> H <sub>5</sub> ) <sub>2</sub>	52 76	7274 (0.07) 112115 (0.07)	1.0638 1.1394	1,4945 1,4940
	(160 -C3 170)2P(S)SC2H5	62	5960 (0.17)	1.0720	1.4900
	$(180-C_3H_7O)_2P(S)SP(O)OC_2H_5)_2$	97	117118 (0.18)	1.1435	1.4915
	$(C_4H_9O)_2P(S)SC_2H_5  (C_4H_9O)_2P(S)SP(O)(OC_2H_5)_2$	70 68	8688 (0.08) 123124 (0.07)	1.0400 1.1060	1.4923 1.4908
	$(C_{3}H_{5}O)_{2}P(S)SC_{3}H_{7}$ $(C_{3}H_{5}O)_{2}P(S)SP(O)(OC_{3}H_{7})_{3}$	70 38	72.573 (0.08) 123 (0.1)	1.09U1 1.1477	1.4990 1.4872
	(C <sub>3</sub> H <sub>7</sub> O) <sub>2</sub> P(S)SC <sub>3</sub> H <sub>7</sub> (C <sub>3</sub> H <sub>7</sub> O) <sub>2</sub> P(S)SP( <b>0</b> )(OC <sub>2</sub> H <sub>7</sub> ) <sub>2</sub>	65 60	7476 (0.11) 125127 (0.08)	1,0349 1,0917	1.4860 1.4865
	(130-C <sub>3</sub> H <sub>7</sub> O) <sub>3</sub> P(S)SC <sub>3</sub> H <sub>7</sub> (150-C <sub>3</sub> H <sub>7</sub> O) <sub>3</sub> P(S)SP(O)(OC <sub>3</sub> H <sub>7</sub> ) <sub>3</sub>	83 72	67.568.5 (0J)75) 126.5127 (0.15)	1.0159 1.1166	1,4848 1,4905
ard 4/4		,			

MEL'HIKOV, N.N.; SHVETSOVA-SHILOVSKAYA, K.D.; KAGAN, M.Ya.

Organic insectofungicides. Part 61: Interaction between bis (dialkoxythiophosphono) disulfides and triaryl- and diarylphosphites. Zhur.ob.khim. 30 no.7:2319-2322 Jl 160.

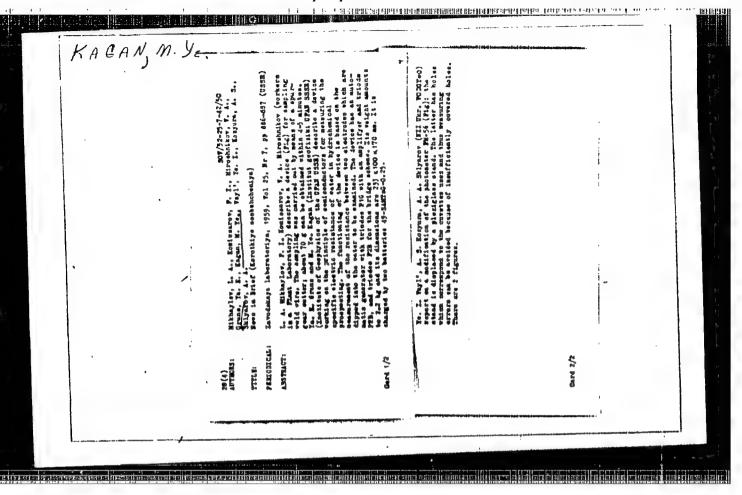
(MIRA 13:7)

1. Hauchnyy institut po udobreniyam i insektofungitsidam, Moskva.
(Phosphites) (Sulfides)

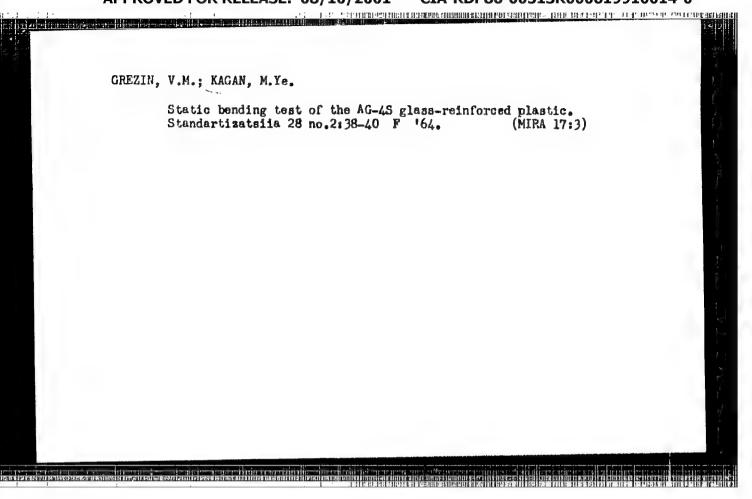
MEL'NIKOV, N.N.; SHVETSOVA, K.D.; GRAPOV, A.F.; MIL'SHTEYN, I.M.; KAGAH,
M.Ya.

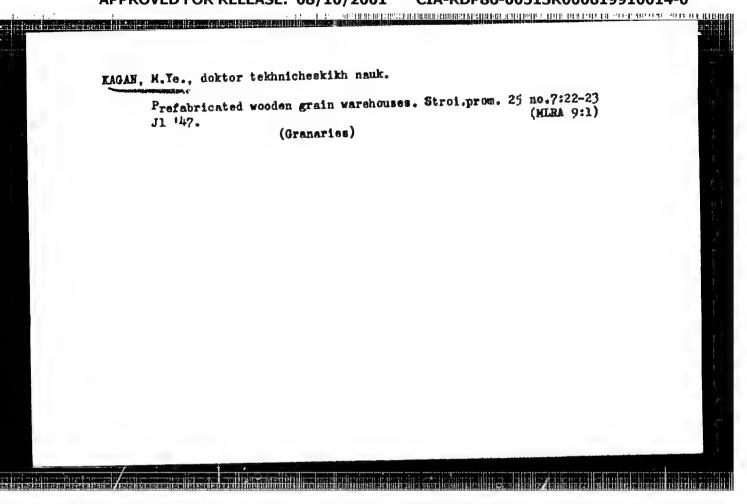
Investigation of new chemicals for the protection of plants.
[Trudy] NIUIF no.164:27-28 '59.

(Insecticides)



GREZIN, V. M.; KAGAN, M. Ye. Resistance of AG-4C glass plastics to prolonged loading under normal climatic conditions. Plast. massy no. 5:
38-/3 16/- (MIRA 17:5) 38-43 164.





KACAN, M. Ye.

36044 Kleyenyye swai. Shornik trudov (Nauch-isoled. im-t po stroit-vu), 2, 1949, c. 5-12

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, 1949

KARISEN, Genrikh Georgiyevich, 1894
redaktor, professor, doktor tekhnicheskikh
nauk; Bol'SHAKOV, V.V., dotsent, kandidat tekhnicheskikh nauk; Kalisin M. Je.,
professor, doktor tekhnicheskikh nauk; SVENTSITSKIT, G.V., dotsent, Kandidat
tekhnicheskikh nauk.

[Wooden structures] Dereviannye konstruktsii. Iud.2., perer. Noskva, Gos.
izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 757 p. (MEMA 6210)
(Building, Wooden) (Lumber)

#### "APPROVED FOR RELEASE: 08/10/2001

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RAME, H.Y.

The Committee on Stalin Prizes (of the Council of Ministers USBR) in the finance of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 122-40, 20 Feb - 3 Apr 1954)

#### Name

Karlsen, G.G.
Bol'shakov, V.V.
Aaran, M.Ye.
Sventsitskiv, J.V.

#### Title of Work

"Mooden Structures" (textbook, 2d edition)

#### Homilparted by

Moscow Construction Engineering Institute immai V.V. Kuybashav

80: .. W-30604, 7 July 1954

KAGAN, M.Ye., professor, doktor tekhnicheskikh nauk; SOKOLOVSKIY, B.S., kandidat tekhnicheskikh nauk; YAVLENSKIY, S.D., inshener,

Application of cemented piles and sheet piling in building hydrotechnical atructures. Gidr.stroi. 23 no.3:26-29 \*54. (MLRA 7:6) (Pile driving)

KAGAR, MOUSEY YEFIMOVICH

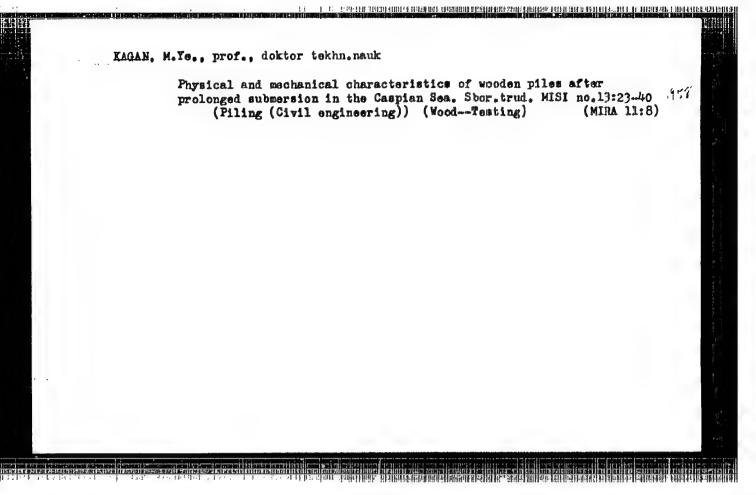
N/5 661.4 .K13

Kleyenyye Svai I Shpunt (Cemented Piers and Sheet Filing, By) M. Ye. Kagan, B. S. Sokolovskiy, i S. D. Yavlenskiy. Moskva, Izd-Vo Rechnoy Transport, 1955.

126 P. Illus., Diagrs., Tables.

B. O. B. B.

THE PROPERTY OF THE PROPERTY O



KAGAN, M.Ye., prof., doktor tekhn.nauk; SLITSKOUKHOV, Yu.V., kand.tekhn.nauk

Investigating glued pile models for frost resistance. Sbor. trud.

MISI no.13:170-180 '58. (MIRA 11:8)

(Filing (Givil engineering)) (Wood--Testing)

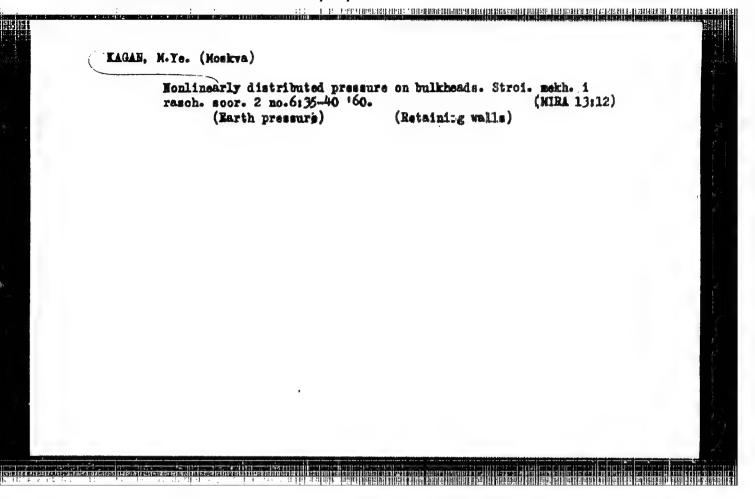
GRUES, Ya.E.; KAGAN, M.Yo.

Transistarized device for determining the electrical resistivity of water; resistivity meter. Trudy Gor.-geol. inst. UPAN SSSR.

no.34:95-100 '58.

(Water, Urd) reground—Electric properties)

(Electric prospecting)



14.7 THE REPORT OF THE SECOND STREET OF THE PROPERTY OF THE PR

KARLSEN, G.G., doktor tekhn.nauk, prof.; BOL'SHAKOV, V.V., doktor tekhn.nauk, prof.; KAGAN, M.Ye., doktor tekhn.nauk, prof.; SVENTSITSKIY, G.V., kand.tekhn.nauk, dotsent; ALHKSANDROVSKIY, K.V., dotsent; BOGHKAREV, I.V., kand.tekhn.nauk, dotsent [deceased]; FOLOMIN, A.I., doktor tekhn.nauk; Prinimal; memastiye: KOLOMIN, G.P., inst.; SILIN, V.H.; dotsent, kand.tekhn.nauk; PISCHIKOV, V.G., kand.tekhn.nauk, dotsent, nauchnyy red.; IVANKOV, P.T., dotsent, red.; BORODINA, I.S., red. izd-va; RUDAKOVA, N.I., tekhn.red.

[Wooden structures] Dereviannye konstruktsii. Izd.3., perer. i dop. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. 1 stroit. materialam, 1961. 642 p. (MIRA 15:2)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Karlsen).

(Building, Wooden)

KAGAN, M.Ye., doktor tekhn.nauk, prof.; BUDANOV, V.D., inzh.

Durability of polyvinyl chloride linoleums according to results of tests for rapid aging and actual observations. Strain mat. 9 no.2: (MIRA 16:2)

(Ethylene) (Lindleum—Testing)

ACCESSION NR: AP4035105

5/0191/64/000/005/0038/0043

TO SECURITY OF THE PROPERTY OF

AUTHOR: Grezin, V. M.; Kagan, M. Ye.

TITIE: Resistance of fiberglass AG-4S to prolonged stress under normal climatic conditions.

SOURCE: Plasticheskiye massy\*, no. 5, 1964, 38-43

TOPIC TAGS: fiberglass, stress resistance, aging, compression strength, tensile strength, flexural strength, compression coefficient, tensile coefficient, flex coefficient, breakdown stress

ABSTRACT: The compression, tensile and flexural strengths of fiberglass AG-4S on prolonged stress at 20 ± 1C and 70 ± 5% humidity, and the coefficients of prolonged resistance to these stresses were determined after selecting the form and dimension of the test samples. Compression strength was determined according to COST 4651-49 and GOST 6336-52; tensile strength of 2-3 mm thick bars was tested on apparatus and GOST 6336-52; tensile strength of 10 or 15x200 mm strips was UM-2 according to GOST 4649-55, and flex strength of 10 or 15x200 mm strips was determined according to GOST 4648-56 and OMTU 431-57. The results of prolonged compression, tension or flex at 90, 80, 70, 60 and 50% of the breakdown stresses

Card 1/3

ACCESSION NR: AP4035105

are summarized in the figure. From these the coefficients of long term resistances were determined: for compression, 0.72, tensile strength 0.62 and flex 0.65.
Orig. art. has: 7 figures and 4 tables.

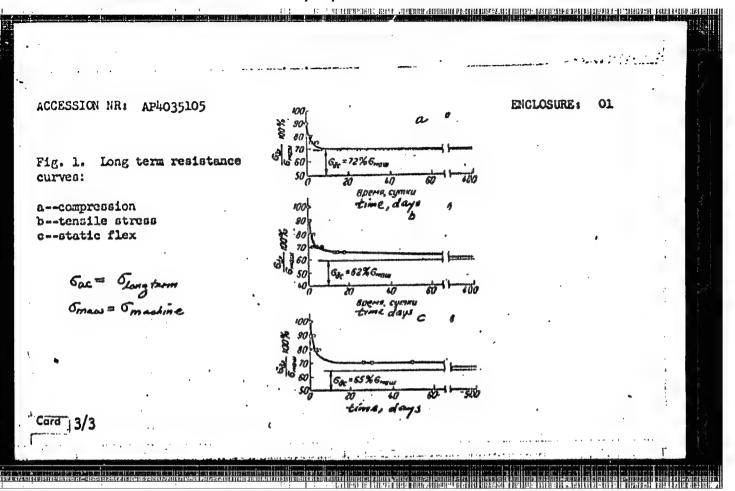
ASSOCIATION: None

SUBMITTED: 00 .

ENCL: Ol

SUB CODE: MT

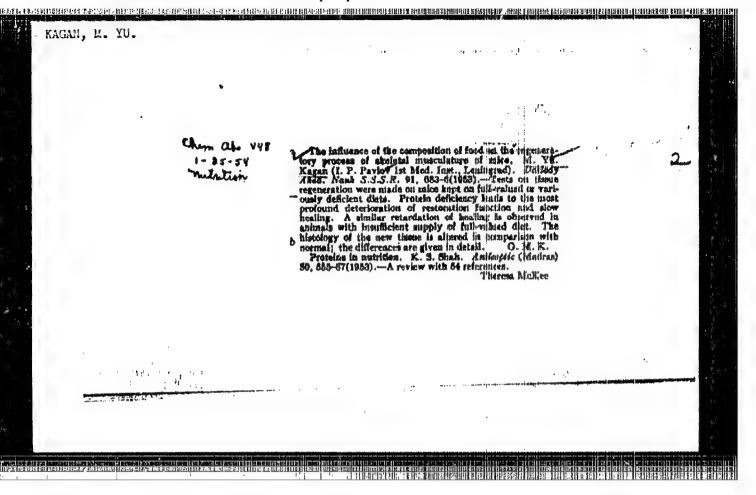
NO REF SOV: 003



KAGAN, M.Ye., doktor tekhn. nauk; BUDANOV, V.D., inzh.

Glass reinforced plastics fiber increase the service life of reinforced concrete cooling towers. Prom. strol. 42 no.12:
46-48 D \*64.

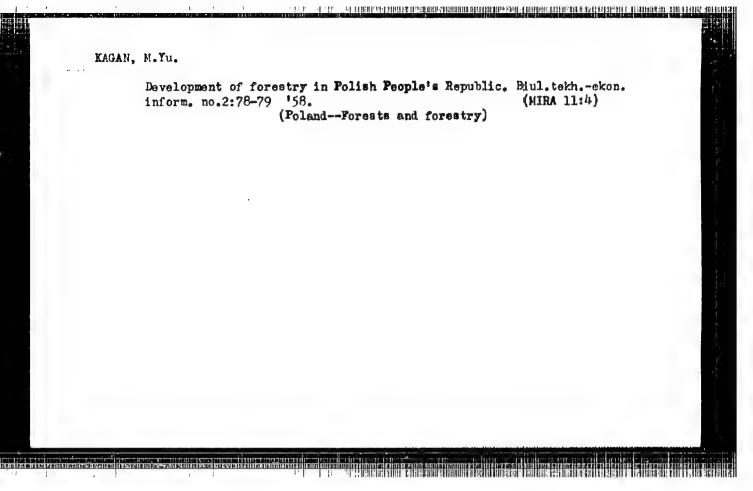
(MIRA 18:3)

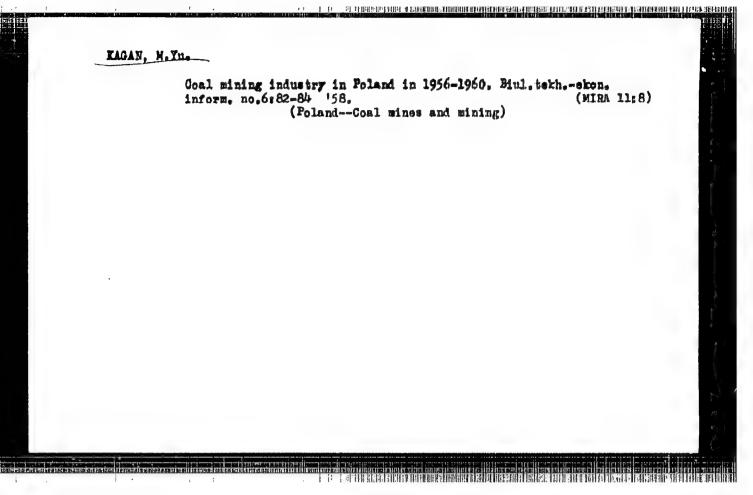


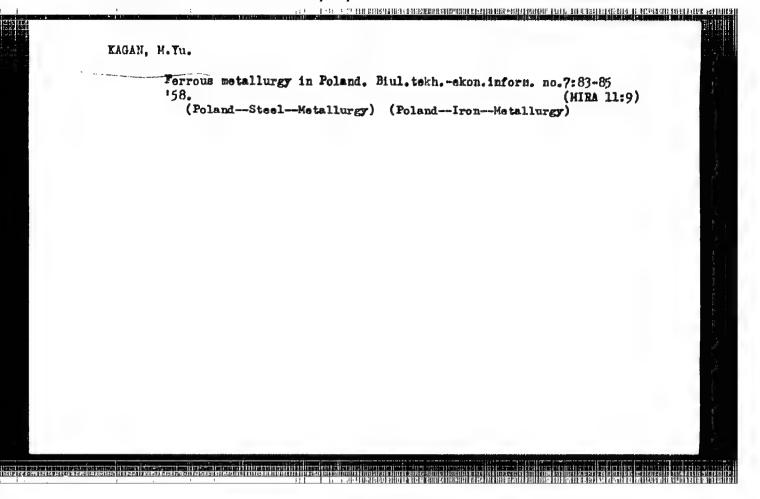
RAGAN, M.Yu., kandidat ekonomicheskikh nauk.

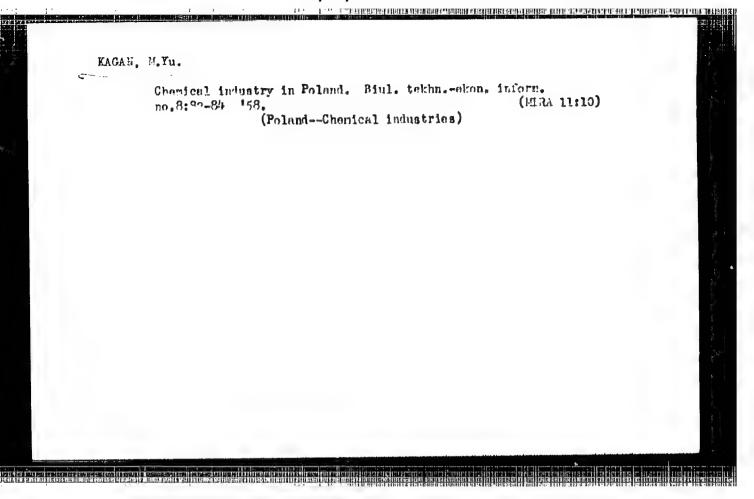
Growth of the textile industry in the Polish People's
Republic. Tekst. prom. 16 no.8:64-66 Ag '56. (MLRA 9:10)

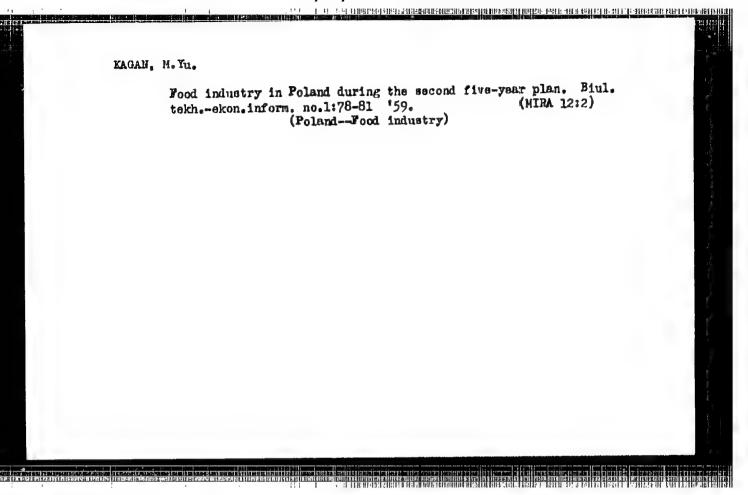
(Poland--Textile industry)

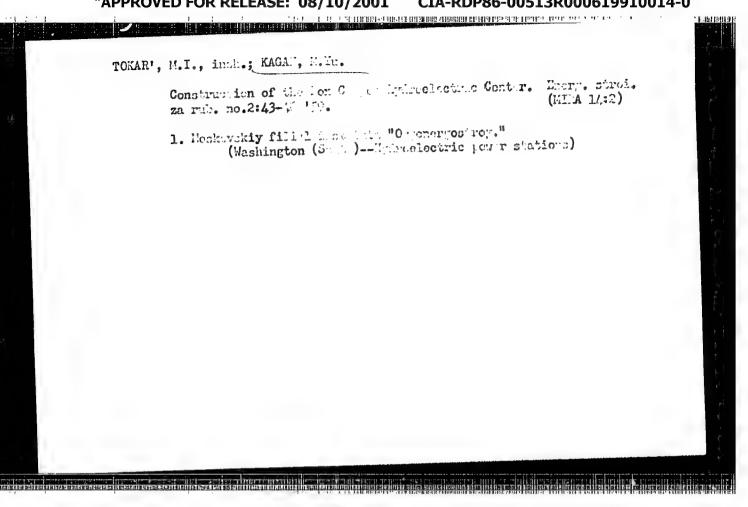


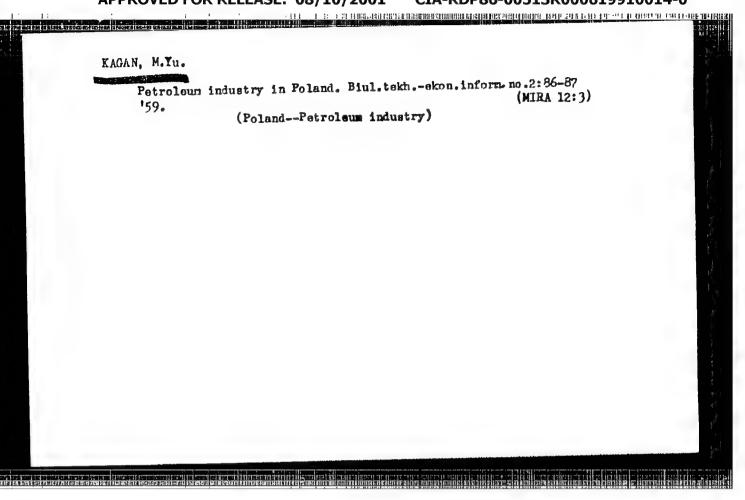


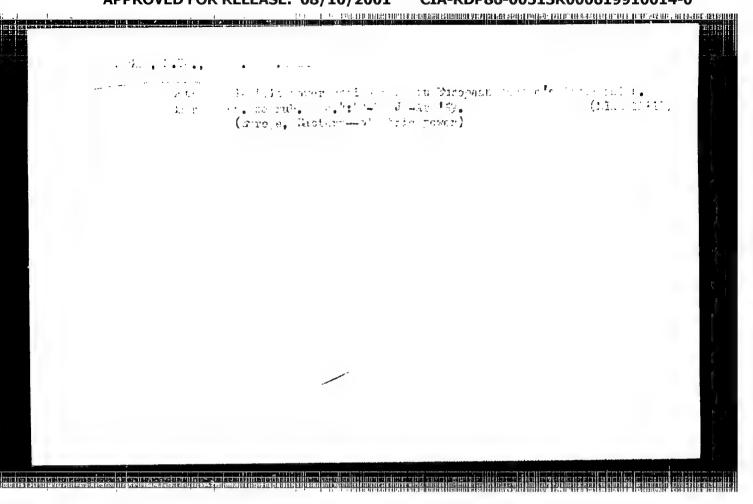










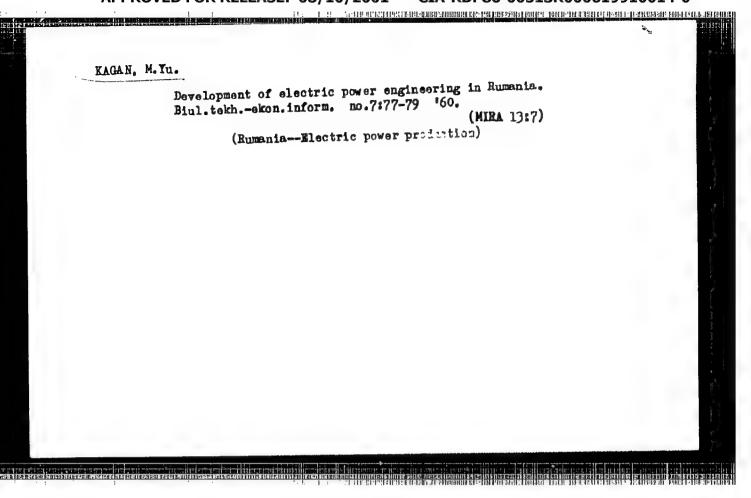


#### 



Present status of electric-power engineering in Poland and the outlook for its development. Biul. tekh.-ekon. inform, no.10:81-83 '59. (HIRA 13:3)

(Poland--Meetric power plants)

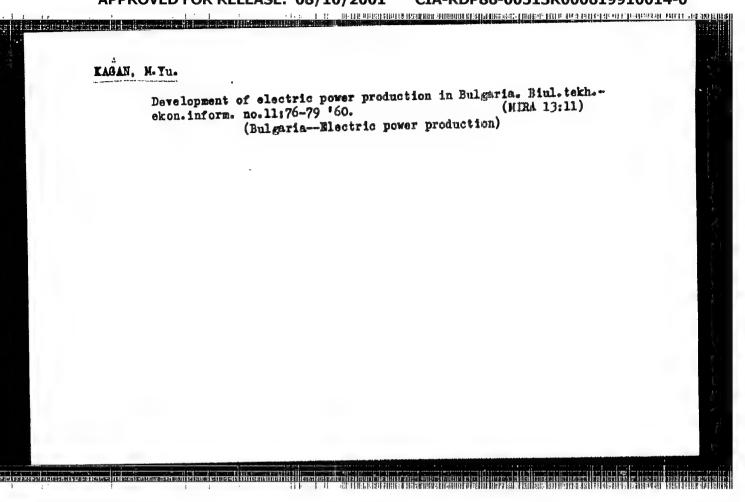


EAGAN, M. Yu., kand.ekonomicheskikh nank

Survey of electric power resources of the Hungarian People's Republic.

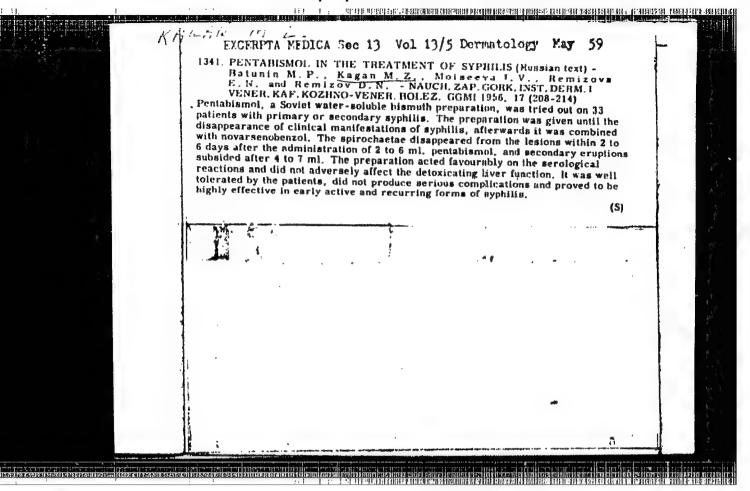
Energokhos. sa rub. no.5:1-5 S-0 '60. (MIRA 13:10)

(Hungary—Electric power)



K.can, ". . and Rezembert, L. I. -- "Characteristics of contapious force of ay bills fro data of the Synhilis Department of the Gor'kovaziy Verezual Dirense Institute after 1945," Nauch. vapiski Gor'k. in-th derentologii i venerologii i Kefedry kozhno-verenich bolezney in Kirova, Issue 12, 1948, p. 35-41

SC: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. >, 1949)



BATUNIN, M.P., prof., zasluzhennyy deyatel' nauki; KAMAN. M.Z., starshiy nauchnyy sotrudnik; MIKHAYLOV, K.A., dotsent; EOSTHEVA, N.N., nauchnyy sotrudnik; KHIZHIN, V.Yu., nauchnyy sotrudnik

Observations on the treatment of syphilitic patients with bicillin I. Vest.derm.i ven. 33 no.5:50-54 S-0 '59. (MIRA 13:2)

l. Iz Gor'kovskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta i kafedry kozhno-venericheskikh bolezney Gor'kovskogo
gosudarstvennogo meditsinskogo instituta imeni S.M. Kirova (direktor'
instituta i zaveduyushchiy kafedroy - zasluzennyy deyatel' nauki prof.
M.P. Batunin).

(SYPHILIS ther.)
(PENICILLIN ther.)

#### "APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910014-0 TO THE SECOND STREET OF THE SE

Kagan, N.13.

137-1958-3-4632

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 3, p 24 (USSR)

Brudnyy, B. P., Kagan, N. B., Fel'dman, I. A. AUTHORS:

Automation of Electrical Induction Furnaces (Avtomatizatsiya TITLE:

induktsionnykh elektricheskikh pechey)

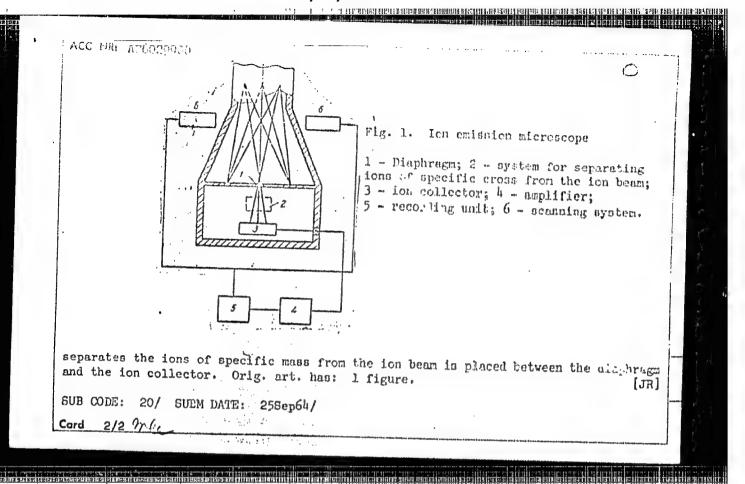
V sb.: Raboty M-va elektrotekhn. prom-sti SSSR po mekhaniz. i avtomatiz. nar. kh-va. Vol 1. Moscow, 1956, pp 155-158 PERIODICAL:

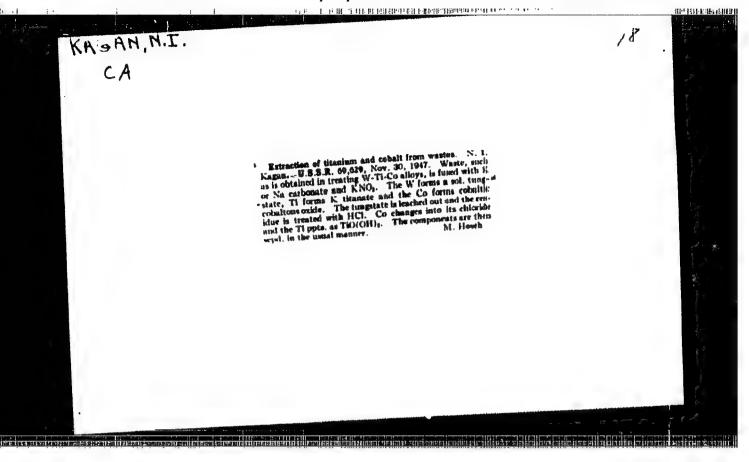
At the present time induction-type smelting furnaces are operated manually. Attempts made in 1947 to control automati-ABSTRACT: cally the voltage of the generator which supplied current to the furnace were not successful and were, therefore, abandoned in 1951. The basic parameter, requiring automatic regulation in induction furnaces, is  $\cos \phi$ . Complete automatization of the electrical regimen requires automatic control of the power factor (PF), the voltage, and the generator current. In 1955, a special bureauof the "Elektropech" ("Electrofurnace") trust began work on the development of a PF (cos  $\varphi$ ) regulator for an induction furnace. The following design was developed: A special gage measures the PF of the apparatus and transmits a control impulse to a device which adds or partially removes

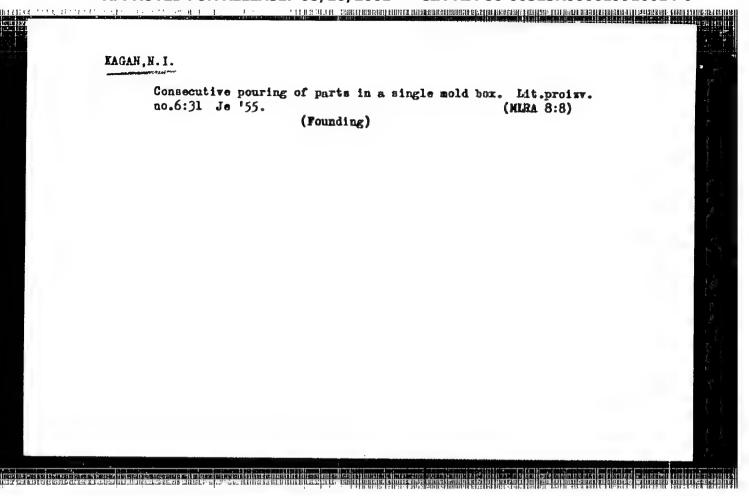
Card 1/2

L 27544-66 EWT(1) IJP(c) ACC NR. AP6007506 SOURCE CODE: UR/0109/66/011/002/0287/0290 AUTHOR: Rozenfel'd, L. B.; Kagan, N. B.; Kushnir, Yu. M. 0 ORG: none TITLE: Investigation of the energy spectra of ion-electron emission in an emissiontype electron microscope SOURCE: Radiotekhnika i elektronika, v. 11, no. 2, 1966, 287-290 TOPIC TAGS: electron microscope, energy spectrum, ion bumbardment ABSTRACT: The results are presented of an experimental investigation of the energy spectra of secondary electrons arising from the bombardment of specimens by a positive-ion beam, in an electron emission microscope. Energy spectra of W; Mo, Ta, Ti, Ni, brass were studied (preheated to 200-300C); bombardment by ions of air, He, A with energies of 5-10 kev; primary-beam angle, 6-160. It was found that the minimum energy spread of the secondary electrons occurred with the lowest (5 kev) primary energy and the greatest (16°) grazing angle. Originat, has: 5 figures. SUB CODE: 09 / SUBM DATE: 03Jun63 / ORIG REF: 001 / OTH REF: 004 UDC: 537.533

INVENTOR: Kushnir, Yu. M. Rozenfelld I R. Der Character C. M. 7. C.
INVENTOR: Kushnir, Yu. M., Rozenfel'd, L. B.; Der-Shvarts, G. Valikasan, N. B. 35
ORG: none
TITLE: Microscope of the ion emission type. Class 21, No. 184366  SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 63-64
ABSTRACT: The proposed microscope of the ion emission type contains an axisymmetric electrostatic optical system, a diaphragm, a device for separating ions of specific mass from the ion beam, an ion collector, such as the first dynode of a secondary electron multiplier, an amplifier, and a recording unit (see Fig. 1). To increase microscope resolution and to make possible the observation of the distribution of various chemical elements on the surface of the sample, a scanning system, synchronized with the control unit and admitting through the diaphragm an enlarged ion image for every element, is used in the microscope. For the same purpose, the device which
ard 1/2 UDC: 621.385.633







#### 

KAGAH, N. I.

Increasing the output of continuous furnace pipe welding plants. Metallurg 7 no.11:24-26 N '62. (MIRA 15:10)

1. Zamestitel' nachal'nika tsekha pechnoy avarki trub Chelyabinskogo truboprokatnogo zavoda.

(Pipe mills)

FRIKKE, S.A., inzh.; KAGAN, N.I., inzh.

Mastering the procedure for producing gas pipes by continuous furnace velding. Stal' 22 no.10:929-931 0'62. (HIRA 15:10)

1. Ural'skiy nauchno-issledovatel'skiy tropnyy institut.

Chelyabinskiy truboprokatnyy zavod.

(Gas pipes-Welding)

ration of the transfer of the control of the second of the second of the control of the second of th

TAYTS, N.Yu., doktor tekhn. nauk; KLEYNER, M.K., inzh.; ZAVALISHIN, Ye.K., inzh.; KALUGIN, Ya.P., inzh.; FALILEYEV, I.L., inzh.; KAGAN, N.I., inzh. [deceased]; Prinimali uchastiye: PCPOV, V.N. inzh.; CHUYKOV, A.A., inzh.; MINUKHINA, L.N., inzh.; KHATSAREVICH, V.R., inzh.; TOLMACHEVA, I.A., inzh.; BAZHENOVA, V.N., inzh.

Technological and thermodynamic characteristics of strip heating for the continuous furnace welding of pipes.

Stal'24 no.8:746-750 Ag '64. (MIRA 17:9)

l. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut, Ural'skiy nauchno-issledovatel'skiy trubnyy institut i Chelyabinskiy truboprokatnyy zavod.

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KAGAN, N.L.

Case of ascariasis in children. Zdrav. Bel. 9 no.7:88 J1:63 (MIRA 17:4)

1. Iz Comel'skoy detskoy bol'nitsy (glavnyy vrach - S.V. Zaykova).

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910014-0"

EAGAN, N.M.; FILIMONOV, L.M.

Spectrum analysis of nitrogen and oxygen in titanium. Zav.lab.23
ne.2:185-187 '57. (MERA 10:3)

1. Institut "Giprotsvetmetebrabetka".
(Nitrogen--Spectra) (Oxygen--Spectra) (Titanium--Analysis)

32-7-44/49

AUTHORS:

Makulov, N.A., Kagan, N.M.

TITLE:

The Industrial Control Quantometer for the Analysis of Production

in the Steel Casting Industry

(Proizvodstvennyy kontrol'nyy kvantometer dl'ya analiza produktsii

staleliteynykh zavodov)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 7, pp. 880 - 881 (USSR)

ABSTRACT:

For the determination of the chemical composition of the products of English Steel Casting Plants a quantometer made by the firm of Arl is used. It can be used for the control and investigation of caboniferous and low-alloyed steels. The samples to analyzed are made in form of disks having a diameter of 45 mm and a height of 16 mm. As a counterlectrode a graphite rod with cone-shaped end is used. Annealing takes 5 seconds, the time of exposure is 20 seconds. These quantometers are widely in use in the English

metallurgical industry. There are 2 tables.

Card 1/2

KAGAN, N.M.

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507/81-59-19-67721

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 124 (USSR)

AUTHORS:

Filimonov, L.N., Kagan, N.M.

TITLE:

On the Spectral-Analytic Determination of Carbon and Hydrogen in

Titanium

PERIODICAL:

Fiz. sb. L'vovsk. un-t, 1958, Wr 4(9), pp 222 - 225

ABSTRACT:

The possibility of determining 0.01 - 1% of C in titanium by the line 2296.89 A has been studied. The spectra are excited in the discharge of a high-voltage condensed spark from a Dietert generator with a Cuelectrode sharpened to a truncated cone with an area of 1 mm in diameter; the interelectrode gap is adjusted equal to 1.25 - 1.5 mm. Synthetic standards are employed made of briquetted and calcined mixtures of magnesium-thermal titanium and Ti carbide powders. Surface pollutions with C-containing substances are sources of errors. Freliminary burning eliminates the pollutions in an O2 atmosphere or in mixtures of other gases with 02, but in pure He and N2 even longlasting burning does not eliminate the surface pollutions. The absolute sensitivity of C deter-

Card 1/2

mination is less in an  $0_2$  medium and increases on adding  $N_2$  or He to it; Gosedenstverry NII IN-TA obrabothi tovetrykh metallov "Signotavetmetobrabotha.

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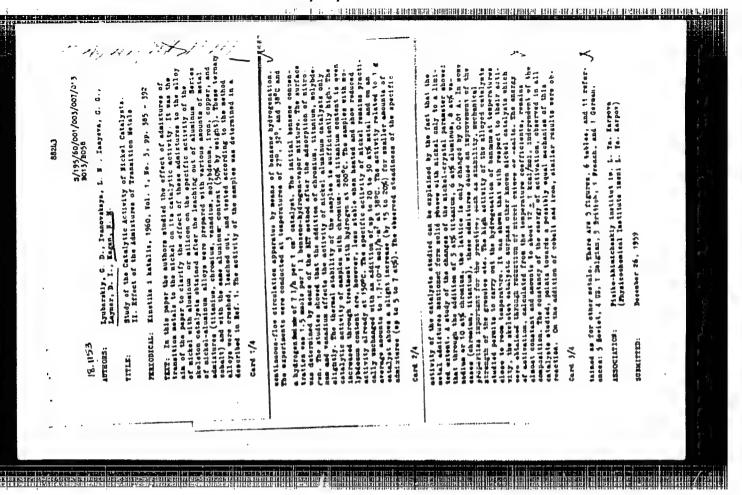
SOV/81-59-19-67721

On the Spectral-Analytic Determination of Carbon and Hydrogen in Titanium

at an addition of > 50% the sensitivity does not increase and the intensity of the spectrum decreases. In the analysis in an air medium the calibration graph starts bending at C concentrations of < 0.1% in the sample, but in  $0_2$  and in mixtures of  $0_2$  with a three-fold volume of  $N_2$  or He the linearity of the graph is maintained up to 0.05%. H in titanium is determined by the line 6562.85 A at the excitation of the spectra by a pulse discharge with a capacitance of 1,000  $\mu$  farad, an inductance of 0.05 $\mu$  henry and a spark gap of 0.3 mm. The analysis is carried out on a device with a reverse linear dispersion of 500 A/mm in the region of the H line which is resolved from the line C 6578.03 A at a slit width of 0.005 mm. The spectra of the samples of the iodide, calcium-thermal and magnesium-thermal titanium with equal H contents ( $\sim$  0.012%) show a strong change in the intensity of the background of the spectrum (up to 4 times), which increases with the increasing content of the admixtures. Considerations on the manifestation of the effects of third elements on the analysis results are expressed.

N. Sventitskiy

Card 2/2



S/195/60/001/004/010/015 B017/B055

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AUTHORS:

Layner, D. I., Kagan, N. M., Lyubarskiy, G. D., Isayeva, G. G.

TITLE:

The Effect of Copper on the Catalytic Properties of a

Skeleton Nickel Catalyst

PERIODICAL:

Kinetika i kataliz, 1960, Vol. 1, No. 4, pp. 576-582

TEXT: The authors investigated the decrease of catalytic activity, magnetic susceptibility, and specific surface produced by dissolving out aluminum from catalysts with increased copper content formed from Al-Ni-Cu alloys. The dependence of magnetic susceptibility and activity of skeleton catalysts (Cu + Ni) on the copper content is shown graphically in Fig. 1. Fig. 2 represents the phase diagram of Al-Ni-Cu alloys according to Köster (Ref. 9). The finely ground Al-Ni-Cu alloys were leached out with 20% NaOH at 98-100°C. The phase composition of leached alloys was examined radiographically. The relative results appear in Fig. 3. Catalytic activity was determined by hydrogenation of benzene and the specific surface by the BET method. The data obtained are tabulated. The activation energy of the catalysts in hydrogenation of benzene was

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910014-0"

The Effect of Copper on the Catalytic Properties of a Skeleton Nickel Catalyst

S/195/60/001/004/010/015 B017/B055

fairly constant at copper contents of 0 to 15 % by weight. The rapid decrease in magnetic susceptibility and catalytic activity observed in the case of leached alloys with increased copper content is due to a decrease in the content of metallic nickel, which forms only from the £ phase the content of which, however, rapidly decreases at 20% Cu. There are 5 figures, 1 table, and 10 references: ! Soviet, 3 US, 3 British, and 3 German.

ASSOCIATION:

Institut Giprotsvetmetobrabotka (State Design and Planning Scientific Research Institute for Working of Monferrous Metals). Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED:

February 20, 1960

Card 2/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619910014-0"

LAYNER, D.J.; KAGAN, N.M.

Phase composition of skeleton nickel catalysts, Trudy
Giprotsvetmetobrabetka no.20:102-116 '61. (MIRA 15:2)

(Catalysts, Nickel--Testing) (Nickel--Metallography)

FREYDLIN, L.Kh.; ZHUKOVA, I.F.; ZIMINOVA, N.I.; LAYNER, D.I.; KAGAN, N.M.

Deactivation of sketetal nickel catalyst by water vapor and enhancement of its stability by means of promoters. Kin. i kat. 2 no.1:112-117 Ja-F '61. (MIRA 14:3)

TO SEE THE SECOND STREET OF THE PROPERTY OF TH

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR. Institut giprotsvetmetobrabotka. (Catalysts, Nickel)

IAYNER, D.I.; KAGAH, N.M.

Phase constitution of catalysts obtained by the lenching of Al-Ni alloys. Fiz. met.imetalloved 11 no.6:834-842 Je '61.

(NIRA 14:6)

1. Giprotsvetmetobrabotka.

(Aluminum-nickel alloys--Metallography)

(Leaching)

FREYDLIE, L.Y..; 1630 more, R.Y.: GYINTAG, L. 1.; LATER, A. 1.; LATER, a. 1. 1. LATER, a. LAT

ACCESSION NR: AP4044553

\$/0204/64/004/004/0547/0551

AUTHOR: Freydlin, L. Kh., Borunova, N. V., Gvinter, L. I., Layner, D. I., Kagan, N.M.

TITLE: Investigation of the effect of cadmium on the activity and selectivity of nickel-zinc catalysts during hydrogenation of hydrocarbons

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 547-551

TOPIC TAGS: cadmium, nickel, zinc, nickel zinc catalyst, hydrogenation, catalyst selectivity, hydrocarbon, benzene, styrene, cyclohexene, octene, gas chromatography, catalytic hydrogenation

ABSTRACT: The effect of metallic cadmium on the activity and selectivity of nickel over zinc oxide catalysts during the hydrogenation of hydrocarbons, such as hepten -3.6, p. 95.8-96.1C,  $n^{20} = 1.4033$ ), a mixture of octenes (b.p. 123-125C,  $n^{20} = 1.4140$ ), cyclohexene (b.p. 83C,  $n^{20} = 1.4450$ ), styrene (b.p. 52-53 C/28mm Hg,  $n^{20} = 1.5462$ ) and benzene

(b. p. 80.1C,  $n_D^{20} = 1.5017$ ), was investigated under flow conditions. After cooling to -5C,

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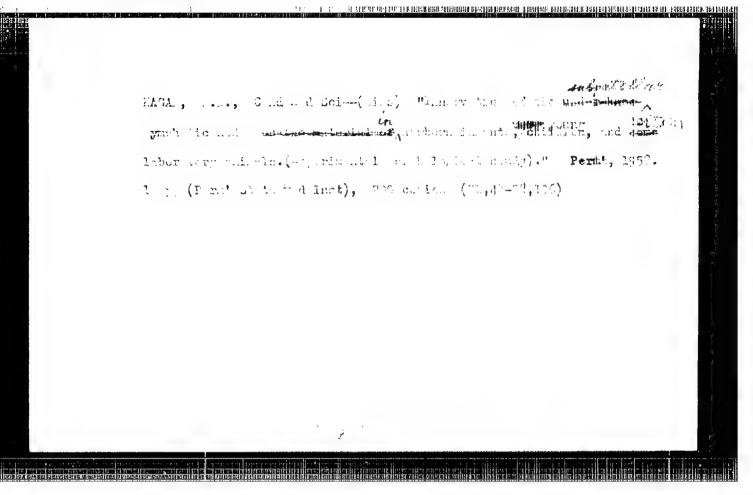
ACCESSION NR: AP4044553

the products were analyzed by gas chromatography. It was found that the relative amounts of cadmium necessary for deactivating the catalyst in the hydrogenation of benzene, cyclohexene and the ethyl bond of styrene were 0.2, 25 and 500% by weight. The probable mechanism of the action of cadmium at different temperatures was studied and discussed. It was established that a variation in the amount of Cd permits the selective hydrogenation. of olefins in the presence of benzene or of styrene mited with cyclohexene. The change in the catalytic properties of nickel due to the addition of Cd is due to the change in the composition and crystal structure of the surface layer of the catalyst. Under conditions close to those of the preparation of Ni-ZnO-Cd, cadmium interacts with nickel and forms an intermetallic compound. X-ray analysis and comparison of the interplanar spacings obtained previously showed that the reaction products of mixtures containing up to 70% Cd consist of nickel crystals and O-phase crystals (Cd1, Ni1). For products containing only 30% nickel, there was only one line of B-phase with a further increase in the Cd content in the mixture, lines of other intermetallic compounds, apparently with a higher cadmium content (B-phase), appear. On increasing the time of reaction of the catalysts, the loss in Cd increases. New active surface sites on the Ni catalyst are set free and the activity

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**Card 3/3** 

APPROVED FOR RELEASE: 08/10/2001 CTA-RDP86-00513R000619910014-0



ZHENDRINSKIY. Ivan Pavlovich; Kagan, Neum Pavlovich

[Leucorrhea] Beli. Izd.3. Moskva, Medgiz, 1958. 21 p.
(LEUCORRHEA)

(MIRA 13:8)

RAGAN, N.P., glavnyy vrach

Publicize the cause of quietness in living. Med. sestra 19 no.7:
J1 '60. (MIRA 13:8)

1. Iz Doma sanitarnogo prosveshoheniya Kuybyshavskogo rayona Moskvy.

(QUIETUDE)

8/122/60/000/007/010/011 A161/A029

On Methods of Determining the Mechanization Level in Machine Building Industry

both the mechanical  $Q_M$  and manual  $Q_\rho$  methods, i.e.:

 $M_{\rm nn} = \frac{Q_{\rm M}}{Q_{\rm 0}} \cdot 100 = \frac{Q_{\rm M}}{Q_{\rm K} + Q_{\rm 0}} \cdot 100 \qquad (Formula 2)$  It is proved by calculations that the practice is wrong, as well as factors which have been suggested by L.Ya. Berri and K.I. Klimenko (Ref. 3), and it is mentioned that Institut elektrosvarki im. Ye.O. Patona AN UKRSSR (Electric Welding Institute im. Ye.O. Paton of the AS UKrSSR) has developed productivity coefficients for different electric machine welding by comparison with manual arowelding, which proves that such coefficients can also be developed at machine building works. The authors suggest that the work of workers at machines be separated from manual operations and a "coefficient of machine time" "K," be used. This coefficient must be established for every type and pattern of machines and it will depend on the auxiliary equipment and the organization of the production process. The idea is explained on a practical example of a molding machine (Table 1). Such coefficients would help to calculate easily the degree of mechanization at every work place and subsequently the mechanization degree of the production process  $M_m$  as a whole, using the formula (5):

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TO THE STATE OF STATE

AUTHOR:

Kagan, N. Ya.

TITLE:

Main trends in the mechanization and automation of foundry shops

with small-batch or piece production

PERIODICAL:

Liteynoye proizvodstvo, no. 11, 1960, 9 - 17

TEXT: In his article the author presents a general survey on the degree of mechanization and automation of foundry shops, particularly those of heavy machine plants which at present produce more than 40% of steel castings and 20% of cast iron of the total casting output of the USSR. The Vsesoyuznyy proyektnotekhnologicheskiy institut (All-Union Planning and Technological Institute) has carried out an analysis of the foundry production of more than 100 foundries of heavy machinery plants with mainly small-batch and piece production, and, together with the Uralmashzavod, basic technological and organization measures have been worked out, which have been approved by the Sverdlovsk Sovnarkhoz, the Mosoblsovnarkhoz and the Department of Heavy Machine Building of the Gosplan USSR. Referring to the above mentioned work, the author points out that a prerequisite for the increase of the level of mechanization and automation of molding, core-making and

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Main trends in the mechanization and automation ...

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shaking-out operations is the mechanization of molding sand preparation, including the standardization of molding sand installations of 10 - 20 - 40 - 80 m3/h capacity. Moreover, the foundry shops should be relieved from the preparation and processing of binders, pasts, paints and other auxiliary molding materials as well as the treatment and preparation of molding sands, clays and bentonites. These opentions should be performed at centralized enterprises on the Rayon level. The author states that the degree of mechanization of molaing operations at heavy machinery plants is still rather low and, on the average, amounts only to 7.8% in steel foundries and 8.2% in cast iron foundries. The molding machines being employed have a low machine time coefficient (8 - 10%) and an insufficient productivity (0.5 - 6 items per h). The author indicates a number of other deficiencies which he considers a great obstacle on the path to overall mechanization and auto mation of production processes in foundry shops with small-batch and piece production. To eliminate these deficiencies, a number of new technological measures have been developed which, in the first place, exclude the influence of the extent of the casting series on the volume of overall mechanization and automation of the main technological processes in foundry practice. The author then analyzes the main trend in the overall mechanization and automation of molding, pouring and shaking-out operations with the aid of an example of a model plant, this plant being designed to serve as a pilot model for the reconstruction of steel casting Card 2/4

เรียน เรื่องเกาะละพระเพราะที่เลือย์เพราะละเมื่อเกาะสักเทียนแล้นแทนในให้เลือนก็เกียนการการแกะละและเกาะในโดย สิงใจให้เกาะสามารถใน

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Main trends in the mechanization and automation ...

capacity of 22,000 tons/year. Illustrations show the automatic measuring hopper installation, the cope and drag tilting mechanisms, the automatic shaking-out station. Further reference is made to the small-batch and piece production of castings in the range of 3 - 150 tons, castings from 50 tons on being produced in concrete caissons with the aid of mechanized equipment. It is emphasized that, the percentage of labor consumption of cleaning operations being in the range of 15.5 - 13.7% of the total labor consumption of foundry production, a mechanization and automation of these cleaning operations at heavy machinery plants will result in a considerable increase in productivity. The basic equipment for the mechanization of cleaning operations are sandblasting and shotblasting chambers and cleaning drums. Moreover, the author points out that some 450 conveyer lines will be needed by the heavy machinery foundry shops for the mechanization and automation of loading, unloading and processing operations. There are 14 figures.

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KAGAN, N.Ya.; SHENKER, B.Z.; Prinimali uchastiye: FISHKIN, Ye.L., inzh.; REVZIN, A.Z., inzh.; ROZINKINA, L.N., inzh.

Selection of pattern equipment material in individual and small batch production. Lit. proizv. no.12:1-4 D 164.

(MIRA 18:3)

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NEMTSOV, I.B., KAGAN, I.A.

Interplant schools of advanced practices. Strol. mat. 10 no.6:32-33 Je 164. (MIRA 17:10)

1. Nachal'nik otdela rasprostraneniya peredovogo opyta i tekhnicheskoy informatsii Glavnogo upravleniya prodyshlennosti stroitel'nykh materialov i stroitel'nykh detaley Ministerstva stroitel'stva RSFSR (for Nemtsov). 2. Zamestitel' nachal'nika otdela rasprostraneniya peredovogo opyta i tekhnicheskoy informatsii Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley Ministerstva stroitel'stva RSFSR (for Kagan).

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